

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

Chas. Hude A/S
33, H.C.Andersens Boulevard
DK-1780 Köpenhamn
Danmark

Showlevand VPR	73720	Ing. LWE
23 JAN. 2002		
AS 400 MSP	UVE	

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year) **18-01-2002**

Applicant's or agent's file reference
73770 UVE/SP

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/DK01/00572 ✓

International filing date
(day/month/year) **04-09-2001** ✓

Applicant
Atonomics ApS
et al

1. ☒ The applicant is hereby notified that the international search report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.

Where? To the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
 - ☐ no decision has been made yet on the protest: the applicant will be notified as soon as a decision is made.

Further action(s): The applicant is reminded of the following:

4. **Publication:** After 18 months from the priority date, the international application will be published by the International Bureau. Should the applicant wish to avoid or postpone publication, a notice of withdrawal of the international application, or a request for the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.
- Pre-examination:** Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).
- Entry into the national phase:** Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/
Patent- och registreringsverket
Box 5055
S-102 42 STOCKHOLM
Facsimile No. 08-667 72 88

Telex
17978
PATOREG-S

Authorized officer

MARKUS OLSSON

Telephone No. 08-782 25 00

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 73770 UVF/SP	<div style="display: flex; justify-content: space-between;"> <div>FOR FURTHER ACTION</div> <div>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</div> </div>	
International application No. PCT/DK 01/00572	International filing date (<i>day/month/year</i>) 4 Sept 2001	(Earliest) Priority Date (<i>day/month/year</i>) 4 Sept 2000
Applicant Atonomics ApS et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. —

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/DK 01/00572

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12Q 1/68, G01N 27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C12Q, G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI-DATA, EPO-INTERNAL, PAJ, DIALOG

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	American Society for Microbiology, February 2000, W. Fu et al: "Piezoelectric Genosensor Based on PCR Amplification and Application to Detection of Human Papillomavirus Oncogene", page 1 --	1-10
A	Angew. Chem. Int. Ed., Volume 39, No. 5, 2000, Fernando Patolsky et al: "Electrochemical Transduction of Liposome-Amplified DNA Sensing", page 940 - page 943	1-9
X	--	10

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

17 January 2002

Date of mailing of the international search report

18 -01- 2002

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Patrick Andersson/Eö
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/DK 01/00572

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 8702066 A1 (THE UNIVERSITY OF SOUTHERN MISSISSIPPI), 9 April 1987 (09.04.87)	1-9
X	--	10
A	WO 9105261 A1 (E.I. DU PONT DE NEMOURS AND COMPANY), 18 April 1991 (18.04.91)	1-9
X	--	10
P,X	Angew. Chem. Int. Ed., Volume 40, No. 12, Fernando Patolsky et al: "Electronic Transduction of Polymerase or Reverse Transcriptase Induced Replication Processes on Surfaces: Highly Sensitive and Specific Detection of Viral Genomes", page 2261 - page 2265	1-10
P,X	WO 0164945 A2 (NUCLEICA), 7 Sept 2001 (07.09.01), figure 1	1-10
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INTERNATIONAL SEARCH REPORT

Information on patent family members

06/11/01

International application No.

PCT/DK 01/00572

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
WO	8702066	A1	09/04/87	AT	55622 T	15/09/90
				AU	6404286 A	24/04/87
				DE	3673516 D	00/00/00
				EP	0239613 A,B	07/10/87
				JP	63501920 T	04/08/88
				US	5595908 A	21/01/97
				US	5945280 A	31/08/99
WO	9105261	A1	18/04/91	CA	2066643 A	05/04/91
				DE	69010506 D,T	22/12/94
				EP	0494896 A,B	22/07/92
				JP	5500715 T	12/02/93
				US	5658732 A	19/08/97
WO	0164945	A2	07/09/01	AU	7529500 A	24/04/01
				FR	2805826 A	07/09/01
				US	2001024365 A	27/09/01